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99838-5

IAD/OSS-104/66
27 March 1966

MEMORANDUM FOR: Assistant for Plans and Development, NPIC

ATTENTION:

[REDACTED]

FROM:

Chief, Imagery Analysis Division, CIA

SUBJECT:

Evaluation of [REDACTED] Advanced Rhomboid Attachment
(2X Rhomboid) for [REDACTED] Zoom 70 Stereomicroscope

REFERENCES:

- (1) Memorandum, NPIC/P&DS/D/6-740, dated 25 January 1966
- (2) Memorandum, IAD/OSS-64/66, dated 23 February 1966

1. The prototype [REDACTED] Advanced Rhomboid Attachment (2X Rhomboid) for the [REDACTED] Zoom 70 Stereomicroscope, has been evaluated by members of the Imagery Analysis Division's Development and Evaluation Board; by other senior photo analysts in the IAD; and by the Operations Support Staff, IAD. It is the general feeling that this attachment will extend the life and usefulness of the Zoom 70 Microscopes and will provide a piece of transitional equipment during the period required for development, evaluation, and production of a second generation microstereoscope to take the place of the [REDACTED] Zoom 70.

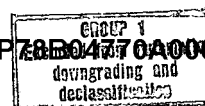
2. This prototype, generally, was well received; however, one or two minor problems were noted:

- a. The rhomboids contact the mounting ring of the scope when they are turned inward.
 - b. The weight of the instrument produces a slight instability in the focus of the instrument, possibly the mount is not rigid or strong enough to support this instrument.
3. The features most favorably received were:
- a. The definite resolution improvement over the present rhomboid.
 - b. The wider stereo base, which makes it possible to view larger chips or more widely displaced stereo conjugate images.
 - c. The image rotation capability is a most desirable feature.

4. This rhomboid attachment will be used by the IAD as a complement to the present rhomboids rather than as a replacement; as a consequence, a case

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IAD/OSS-104/66

will be needed to protect this attachment when it is not mounted on a microscope. The IAD anticipates purchase of approximately 100 of these attachments, and will require a case for each, both as a protective measure and to facilitate storage and handling.

5. As always, the Imagery Analysis Division appreciates the opportunity of evaluating newly developed equipment. We are most interested in the early production, and availability for procurement of this instrument.

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